



# ACCREDITATION CERTIFICATE

**LB-TEST-132**

**Emirates International Accreditation Centre**

has accredited

**EMIRATES GLOBAL ALUMINIUM (EGA) LABORATORIES**

Jebel Ali, Dubai- United Arab Emirates

In accordance with the requirements of

**ISO/IEC 17025:2017**

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 20/07/2022 to 20/01/2025

Initial Accreditation Date: 21/01/2016



/CHIEF EXECUTIVE OFFICER  
APPROVAL



## Accreditation Scope

### Metallurgical Testing

#### LB-TEST-132

## Emirates Global Aluminium (EGA) Laboratories

### Jebel Ali, Dubai- United Arab Emirates

Issue no.: 05

Date: 20-07-2022

Valid to: 20-01-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical	Aluminum & Aluminum Alloys	Brinell Hardness Testing (10/500 Kgm) Standard Test Method for Brinell Hardness of Metallic Materials	In-House Method EGA.CH.MET. TSK.05.01 ASTM E10
		Metallic materials - Tensile testing Part 1: Method of test at room temperature (Method B)	In-House Method EGA.CH.MET/TSK.05.02 ISO 6982 Part 1
Metal Cleanliness Testing	Aluminum & Aluminum Alloys	PoDFA inclusion measurement	In-House Method EGA.CH.MET/TSK.01.01
		AISCAN hydrogen measurement	In-house Method EGA.CH.MET/TSK.01.02

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Issue no.: 05

Date: 20-07-2022

Valid to: 20-01-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Optical Metallography	Aluminum & Aluminum Alloys	Spheroidization of Alpha-AlFeSi Intermetallic Particles	In-House Method EGA.CH.MET./TSK.02.03 EGA.CH.MET./TSK .02.09
		Secondary Porosity Density	EGA.CH.MET./TSK.03 EGA.CH.MET./TSK.03.06
		Grain Size by Intercept Method Standard Test Methods for Determining Average Grain Size	In-House Method: EGA.CH.MET./TSK. 03.01 ASTM E112
Physical	Aluminum & Aluminum Alloys	Determination of density and density index using VAC test	In-House Method: EGA.CH.MET./TSK. 04.01

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Aluminum disc Samples	Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry Optical Emission Spectroscopy using Thermo-ARL 4460 instruments in two locations: LAB 1 & LAB 2	ASTM E 1251 Together with In-house Method: TL/MTD.11.03 TL/MTD.11.29 TL/MTD.11.31 for robotic Quantometers 5, 6 & 8 and for manual Quantometers 3 & 7

Accreditation History		
Issue no.	Details	Date
05	Renewal the accreditation	20-07-2022
04	Certificate validity was extended for 6 months from 21-01-2022 up to 20-07-2022	21-01-2022
03	Reduction in scope, renewal of the certificate and first issuance under the name of EIAC (which formally was known as DAC)	13-03-2019

## Accreditation Scope

### Environmental Testing

#### LB-TEST-132

## Emirates Global Aluminium (EGA) Laboratories

### Jebel Ali, Dubai- United Arab Emirates

Issue no.: 03

Date: 20-07-2022

Valid to: 20-01-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	Determination of pH of waters / Water Sample tested Inorganic Ventures pH 4, 10, 7 standards	EGA.LAB.TSK.07.01
	Drinking Water / Other Water / Waste Water	Determination of Conductivity of water / Water Sample tested Orion check standard 100µs/cm	EGA.LAB.TSK.07.02
	Drinking Water / Other Water / Waste Water	Total Alkalinity as CaCO <sub>3</sub>	EGA.LAB.TSK.07.06 in accordance with APHA 2320 B
	Drinking Water / Other Water / Waste Water	Chloride as Cl	APHA 4500 Cl- B EHA.LAB.TSK.07.05

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## Emirates Global Aluminium (EGA) Laboratories

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Issue no.: 03

Date: 20-07-2022

Valid to: 20-01-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	TSS	APHA 2540 D
	Drinking Water / Other Water / Waste Water	Determination of Total Dissolve Solids in water / Water Sample tested Inorganic Ventures standard	EGA.LAB.TSK.07.03
	Drinking Water / Other Water / Waste Water	Determination of Total Calcium and Magnesium Hardness in water by EDTA titration	EGA.LAB.TSK.07.04 APHA 3500Ca B, 3500Mg B Total Hardness 2340C
	Drinking Water / Other Water / Waste Water	Phosphate as PO <sub>4</sub>	APHA 4500-P E

**Accreditation Scope**  
**Environmental Testing**

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**Jebel Ali, Dubai- United Arab Emirates**

Issue no.: 03

Date: 20-07-2022

Valid to: 20-01-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Drinking Water / Other Water / Waste Water	Sulphate as SO <sub>4</sub>	APHA 4500 SO <sub>4</sub>
	Drinking Water / Other Water / Waste Water	Determination of Fluoride in water by specific ion electrode	EGA.LAB.GEN.07.07

Accreditation History		
Issue no.	Details	Date
03	Renewal the accreditation	20-07-2022
02	Certificate validity was extended for 6 months from 21-01-2022 up to 20-07-2022	21-01-2022
01	Granted accreditation from EIAC	12-04-2020

## Accreditation Scope

### Petroleum Petrochemical Product Testing

#### LB-TEST-132

## Emirates Global Aluminium (EGA) Laboratories

### Jebel Ali, Dubai- United Arab Emirates

Issue no.: 03

Date: 20-07-2022

Valid to: 20-01-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Calcined Alumina	Aluminium oxide primarily used for production of aluminium — Determination of trace elements — Wavelength dispersive X-ray fluorescence spectrometric method	ISO 23201 & EGA.LAB.TSK.03.05
	Aluminium & its alloys	Aluminium and aluminium alloys. Chemical analysis. Inductively coupled plasma optical emission spectral analysis (Atomic Emission Spectrometry (ICP-AES))	BS EN 14242 , EGA.LAB.TSK.01.13 & EGA.LAB.TSK.01.14



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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Silicon Metal	Analysis method of impurities in silicon by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	GB/T 14849.4-2014
	Ferro-Silicon	Analysis method of impurities in Ferro-silicon by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	GB/T 24194-2009 & EGA.LAB.TSK.01.16

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Calcined Petroleum Coke	Standard Test Method for Determination of Trace Metals in Petroleum Coke by Wavelength Dispersive X-ray Fluorescence Spectroscopy Standard Test Method for Trace Metals in Petroleum Coke by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D6376 & ASTM D5600
	Electrical Insulating Oil Sample tested PL43RT5	Standard Test Method for Analysis of Gases Dissolved in Electrical Insulating Oil by Gas Chromatography	ASTM D3612 Method (Headspace) & EGA.LAB.TSK.08.05

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Electrical Insulating Oil Sample tested Merck Aquastar 1000ppm 7 100ppm standards	Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration	ASTM D6304 Method A & EGA.LAB.TSK.08.01
	Electrical Insulating Oil Sample tested GT1 GEN TX	Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration (Total acidity in Petroleum Products (TAN))	ASTM D664 Method A & EGA.LAB.TSK.08.02

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Issue no.: 03

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Electrical Insulating Oil & Lubricating Oils Sample tested STM Oil	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester (Tanaka automatic)	ASTM D93 & EGA.LAB.TSK.08.04
	Electrical Insulating Oil & Lubricating Oils Sample tested Cannon S60 reference oil	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	ASTM D445 & EGA.LAB.TSK.08.03

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01	Granted accreditation from EIAC	12-04-2020